

CHANNEL POWER BALANCING IN A MULTI-CHANNEL TRANSCEIVER SYSTEM

Sreen A. Raghavan
Thulasinath G. Manickam
Peter J. Sallaway
Gerard E. Taylor

ABSTRACT

A transceiver according to some embodiments of the present invention receives data from a plurality of frequency separated transmission channels from a complementary transmitter of another transceiver and adjusts the power output of certain channels in a transmitter of the receiver. Upon start-up, the power output levels of signals in individual channels in the transmitter can be preset. A power balance can determine new power output levels of the transmitter from parameters in the receiver while receiving data transmitted by a similarly situated complementary transmitter in a second transceiver coupled to the transceiver. In some embodiments, a complementary receiver of the other transceiver determines the power outputs of the transmitter and the power levels are transmitted to the transmitter by the other transceiver.